Appendix table 4-19

Domestic R&D paid for by sources located outside the United States and performed by the company, by source of funds, industry, and company size: 2011
(Millions of U.S. dollars)

	NAICS code	- Total	Companies outside United States				
Industry and company size			Subsidiaries <sup>a</sup>	Foreign parent companies	Unaffiliated companies	Foreign governments	All other
All industries	21–23, 31–33, 42–81	15,543	3,342	7,438	4,569	63	129
Manufacturing industries	31–33	11,497	2,527	5,871	2,999	46	54
Food	311	158 i	D	D	D	0	0
Beverage and tobacco products	312	D	D	D	D	0	0
Textile, apparel, and leather products	313–16	D	0	D	*	0	0
Wood products	321	D	0	3	D	0	0
Paper manufacturing	322	D	0	D	D	0	0
Printing and related support activities	323	D	D	0	*	0	0
Petroleum and coal products	324	D	D	0	0	0	0
Chemicals	325	5,229	1,354	2,209	1,658	0	8
Basic chemicals Resin, synthetic rubber, fiber, and	3251	143	D	D	26	0	0
filament  Pesticide, fertilizer, and other agricultural	3252	D	D	D	6	0	0
chemical manufacturing	3253	D	D	D	0	0	0
Pharmaceuticals and medicines Soap, cleaning compound, and toilet	3254	4,717	1,235	1,848	1,626	0	8
preparation	3256	D	D	D	D	0	0
Paint, coating, adhesive, and other chemical manufacturing	3255, 3259	D	D	D	D	0	0
Plastic and rubber products	326	266	0	265 i	1	0	*
Nonmetallic mineral products	327	D	D	*	1	0	D
Primary metals	331	D	0	43	D	0	0
Fabricated metal products	332	D	0	D	D	0	0
Machinery	333	254	D	D	D	D	1
Agricultural implement manufacturing	33311	19	3	15	0	0	0
Semiconductor machinery manufacturing Engine, turbine, and power transmission	333295	158	D	D	D	0	0
equipment manufacturing	3336	D	*	D	D	0	0
Other machinery manufacturing	other 333	D	D	D	D	D	1
Computer and electronic products	334	3,291	521	1,735	991	D	D
Communication equipment	3342	1,000	97	619	283	1	0
Semiconductor and other electronic components	3344	1,299	D	802	D	0	0
Navigational, measuring, electromedical, and control instruments	3345	573	D	D	D	D	D
Electromedical, electrotherapeutic, and irradiation apparatus							
manufacturing	334510, 334517	198	D	D	D	0	0

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(Millions of U.S. dollars)

Industry and company size		- Total	Companies outside United States				
	NAICS code		Subsidiaries <sup>a</sup>	Foreign parent companies	Unaffiliated companies	Foreign governments	All other
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument							
manufacturing	334511	363	D	D	D	D	0
Other measuring and controlling device							
manufacturing	other 3345	12	0	D	D	0	
Other computer and electronic products	other 334	419	D	D	D	0	[
Electrical equipment, appliances, and							
components	335	75	0	73	1	0	(
Transportation equipment	336	857	D	D	D	D	
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	787	D	D	D	0	•
Aerospace products and parts	3364	66	D	D	D	D	(
Aircraft, aircraft engine, and aircraft							
part manufacturing	336411–13	66	D	D	D	D	
Guided missile, space vehicle, and							
related part manufacturing	336414–15, 336419	0	0	0	0	0	
Military armored vehicle, tank, and tank							
component manufacturing	336992	D	D	0	0	0	
Other transportation	other 336	D	0	D	D	0	(
Furniture and related products	337	0	0	0	0	0	
Miscellaneous	339	706	D	D	D	0	1
Medical equipment and supply							
manufacturing	3391	373	D	280	D	0	[
Other miscellaneous manufacturing	3399	333	D	D	D	0	
Nonmanufacturing industries	21-23, 42-81	4,046	815	1,568	1,570	17	7
Mining, extraction, and support activities	21	D	D	0	D	0	
Utilities	22	D	0	0	D	0	
Wholesale trade	42	209 i	0	100	92 i	0	1
Electronic shopping and electronic auctions	454111–12	0	0	0	0	0	
Transportation and warehousing	48–49	0	0	0	0	0	
Information	51	565 i	D	D	D	D	
Publishing	511	394	D	334	D	D	
Newspaper, periodical, book, and				_			
directory publishers	5111	0	0	0	0	0	(
Software publishers	5112	394	D	334	D	D	
Telecommunications	517	34	D	D	D	0	(
Data processing, hosting, and related							
services	518	D	D	0	D	0	(
Other information	other 51	D	D	D	0	0	(

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Domestic R&D paid for by sources located outside the United States and performed by the company, by source of funds, industry, and company size: 2011
(Millions of U.S. dollars)

Industry and company size		- Total	Companies outside United States				
	NAICS code		Subsidiaries <sup>a</sup>	Foreign parent companies	Unaffiliated companies	Foreign governments	All other
	52	1	0	· · · · · · · · · · · · · · · · · · ·	•	0	
Finance and insurance	52 53	0	0	0	1	0	0
Real estate, rental, and leasing Lessors of nonfinancial intangible assets	55	U	U	U	U	U	U
(except copyrighted works)	533	0	0	0	0	0	0
Other real estate, rental, and leasing	other 53	0	0	0	0	0	0
Professional, scientific, and technical	Olliel 33	U	U	U	U	U	U
services	54	2,489	201	1,038	1,175	17	58
Architectural, engineering, and related	<b>5</b> 4	2,400	201	1,000	1,170	17	50
services	5413	110	*	18	78	14	0
Computer system design and related	0410	110		10	70	17	v
services	5415	440	201	156	53	0	31
Scientific research and development	0410	440	201	100	00	· ·	O1
services	5417	1,862	0	809	1,024	2	27
Biotechnology research and	0111	1,002	v	000	1,021	-	2.
development	541711	788	0	212	572	*	3
Physical, engineering, and life sciences (except biotechnology)							-
research and development	541712	1,075	0	597	451	2	24
Social sciences and humanities							
research and development	541720	* i	0	*	* i	0	0
Other professional, scientific, and							
technical services	other 54	77	1	55	20	1	0
Health care services	621–23	D	0	D	D	D	* i
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56,						
	624, 71–72, 81	D	0	D	D	0	0
All companies	_	15,543	3,342	7,438	4,569	63	129
Small companies (number of domestic employees) <sup>b</sup>							
5–499	_	2,655	124	1,916	480	17	118
5–99	_	1,220	D	883	265	D	D
5–49	_	606	D	352	200	D	D
5–9	_	105 i	0	41	61 i	0	3
10–24	_	229	D	124	62	D	D
25–49	_	271	0	186	77	3	6 i
50–99	_	614	D	531	65	D	D
100–249	_	549	D	322	133	D	D
250–499	_	886	85	712	82	*	8
Medium and large companies (number of							

Medium and large companies (number of domestic employees)

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(Millions of U.S. dollars)

Industry and company size		_	Companies outside United States				
	NAICS code	Total	Subsidiaries <sup>a</sup>	Foreign parent companies	Unaffiliated companies	Foreign governments	All other
500–999	-	615	102	D	D	D	D
1,000–4,999	_	5,421	771	1,760	2,884	1	5
5,000–9,999	_	2,369	81	1,866	419	0	4
10,000–24,999	_	2,289	566	1,170	D	D	D
25,000 or more	_	2,192	1,699	D	189	D	D

<sup>\* = &</sup>lt; \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2007 North American Industry Classification System.

NOTES: Detail may not add to total due to rounding. Industry classification is based on the dominant business code for domestic R&D performance where available. For companies that did not report business codes, classification used for sampling was assigned. Statistics pertain to companies located in the United States that performed or funded R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey (2011).

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<sup>&</sup>lt;sup>a</sup> Subsidiaries are company-owned units outside the United States. Although all estimates include an adjustment to the weight to account for unit nonresponse, the estimates for domestic R&D paid for by foreign subsidiaries do not include item imputation. Caution should be used when comparing the subsidiaries estimates to other estimates presented in the table.

<sup>&</sup>lt;sup>b</sup> Upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.